Application No.: 10/559,741 Filed: December 6, 2005

> TC Art Unit: 3662 Confirmation No.: 3855

## AMENDMENTS TO THE SPECIFICATION

Please amend the Abstract of the Disclosure as follows:

A system and method for estimating the signal-to-noise ratio (SNR) in a sonar environment and for determining the effect of the estimated SNR on sonar ranging accuracy. The system includes a sensor, a transmitter, a receiver, a plurality of band-pass filters, a cross correlator, and a data analyzer. The transmitter transmits a pulse-first signal having a predetermined frequency transmission medium. The sensor range through a generatesan echo returning from a selected target, and provides a second signal representing corresponding the to an echo signal reflected from an object. The first and second signals are provided to the receiver, which in turn provides an indication of the echo to the band-pass filters, each . The filters operative to pass a respective sub-band of frequencies. The filters provide filtered versions of the first and second signals echo and pulse cross correlator, which performs the cross correlation operations on the filtered echo and pulsesignals. A data analyzer analyzes By analyzing the cross correlator output data, determine the <del>system can determine peak variability</del> of cross correlation peaks within multiple each frequency sub-bands sub-

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<u>band</u>, thereby allowing more accurate SNR estimations in noisy environments.